

CARBOHYDRATE RESEARCH, VOL. 161 (1987)

AUTHOR INDEX

- ABBAS, S. A., 31, 39, 318
 ABBATE, S., 1
 ABE, Y., 314
 ALEMANY, A., 144
 ALÉN, R., 156
 ANSARI, A. A., 225
 AOKI, Y., c1
 ASENSIO, A., 167
 AVALOS GONZALEZ, M., 49

 BAIRD, J., 127
 BHAT, U. R., 161
 BULPIN, P. V., 291

 CAROFF, M., c4
 CARR, S. A., 305
 CHAKRABORTY, A. K., 91
 CHOAY, J., 305
 CHOWDHURY, T. A., 127

 DEN DRUIVER, L., 65
 DUBEY, R., 31

 FEIZI, T., 133
 FERNANDEZ-MAYORALAS, A., 144
 FREJD, T., 225
 FRENCH, D., 257
 FRUSH, H. L., 181
 FUKUDA, H., 314

 GALBIS PEREZ, J. A., 49
 GIDLEY, M. J., 291, 301
 GREEN, B. N., 305

 HANSSON, G. C., 281
 HASHIMOTO, Y., 113
 HINDSGAUL, O., 195, 324
 HOLZAPFEL, C. W., 65

 IDO, T., 314
 INOUE, Y., 75
 ISBELL, H. S., 181
 ITOH, M., 314

 JAIN, R. K., 31, 318
 JANSSON, P.-E., 273
 JIMENEZ REQUEJO, J. L., 49
 JIMENO, M. L., 144

 KARLSSON, H., 281
 KATO, K., c1
 KOHATA, K., 39
 KOHDA, Y., 247
 KONG, F., 235
 KRUGER, G. J., 65
 KÜFNER, U., 211

 LADEŠIĆ, B., 150
 LARSON, G., 281
 LEBBAR, S., c4
 LENNHOLM, H., 273
 LINDBERG, B., 127, 273
 LINDQUIST, I., 127
 LINDQUIST, U., 273
 LONGHI, G., 1

 MAGNUSSON, G., 225
 MARTIN-LOMAS, M., 144
 MATSUZAWA, T., 314
 MATTA, K. L., 31, 39, 318
 MENG, J., 171
 MURALIKRISHNA, G., 265

 NAGASAWA, K., 75
 NAKAMURA, S., 247
 NATH, K., 91

 OHNISHI, M., 257

 PALACIOS ALBARRAN, J. C., 49
 PANOSSIAN, C. A., 97
 PETTITOU, M., 305
 PIMLOTT, W., 281

 RAMOS MONTERO, M. D., 49
 REINHOLD, V. N., 305
 REUBEN, J., 23
 RICARD, L., 1
 ROSELL, K.-G., 171

 SALIMATH, P. V., 161, 265
 SCHMIDT, R. R., 211
 SESARTIĆ, L., 150
 SHIBAEV, V. N., 97
 SINAY, P., 305
 SRIVASTAVA, L. M., 171
 SRIVASTAVA, O. P., 195, 324

STURTEVANT, J. M., 257

SU, B., 235

SUGIYAMA, H., 314

SVENSON, S. B., 273

SZABÓ, L., c4

TADA, M., 314

TAKAHASHI, T., 314

TAKO, M., 247

TANG, P. W., 133

THARANATHAN, R. N., 161, 265

TOMAŠIĆ, J., 150

TOMIĆ, S., 150

TORGOV, V. I., 97

TSUMURAYA, Y., 113

UENO, Y., c1

VAN DYK, M. S., 65

WU, E, 235

YAMAGUCHI, K., 314

YAMAMOTO, A., 75

YAMAMOTO, S., 113

YAMAUCHI, R., c1

ZERBI, G., 1

CARBOHYDRATE RESEARCH, VOL. 161 (1987)

SUBJECT INDEX

- Acylation of glycofurano[2,1-*d*]imidazolidine-2-thiones: a structural revision, 49
- Alcaligenes* ATCC 31853, structural studies of an extracellular polysaccharide (S-198) elaborated by, 127
- Amylodextrin fractions, binding of iodine to, 257
- Analysis of the carbon-13 n.m.r. spectrum of methanolized *O*-ethylcellulose: monomer composition and models for its description, 23
- Antigen activities on the *O*- and the *N*-linked chains of human milk galactosyltransferase, detection of, 133
- Application of a simple methylation procedure for the analysis of glycosphingolipids, 281
- L-Arabin-D-galactan and L-arabino-D-galactan-containing proteoglycan from radish seeds, 113
- Arabinoxylan and a rhamnogalacturonan derived from linseed mucilage, structural features of an, 265
- Blood-group related antigens on both *O*- and *N*-linked chains of human milk galactosyltransferase, detection of, 133
- 3-Bromo-2-bromomethylpropyl glycosides in the preparation of double-chain bis-sulfide neo-glycolipids, 225
- α -Carrageenan, conformational transition in, 247
- Cellulose, *O*-ethyl-, analysis of the ^{13}C -n.m.r. spectrum of methanolized, 23
- Chain-length requirement for the formation of double helices in the crystallisation of malto-oligosaccharides, the minimum, 291
- Chemical characterization of floridosides from *Porphyra perforata*, 171
- Conformational dependence of CH(CD)-stretchings in D-glucose and some deuterated derivatives as revealed by infrared and Raman spectroscopy, 1
- Conformational transition in α -carrageenan, 247
- Crystalline type (A-C) of native starches and model compounds, factors affecting the, 301
- Crystallisation of malto-oligosaccharides as models of the crystalline forms of starch: minimum chain-length requirement for the formation of double helices, 291
- 2-Deoxy-2-fluoro-D-galactopyranose, synthesis of ^{18}F -labelled, using the acetyl hypofluorite procedure, 314
- 3-Deoxy-2-octulosonic acid, detection in thiobarbiturate-negative endotoxins of, C4
- Depolymerization of pectin with diazomethane, 75
- Diazomethane, depolymerization of pectin with, 75
- 4,6-Dideoxy-D- and -L-hexoses, synthesis from racemic and *meso*-dipropenylglycol of, 211
- 2,6-Dioxabicyclo[3.1.1]heptanes, substituted, synthesis and conformational analysis of, 235
- Dipropenylglycol, racemic and *meso*-, synthesis of 4,6-dideoxy-D- and -L-hexoses from, 211
- Disaccharides, and related compounds, mechanisms for hydroperoxide degradation of, 181
- Double-chain bis-sulfide neo-glycolipids, 3-bromo-2-bromomethylpropyl glycosides in the preparation of, 225
- Endotoxin, thiobarbiturate-negative, detection of 3-deoxy-2-octulosonic acid in, C4
- Escherichia coli* O-2 lipopolysaccharide, structural studies of the *O*-specific side-chains of the, 273
- Esterase-catalysed de-esterification of radio-labelled methyl 2,6-di-*O*-pivaloyl- α -D-glucopyranoside, synthesis and, 150
- Factors affecting the crystalline type (A-C) of native starches and model compounds: a rationalisation of observed effects in terms of polymorphic structures, 301
- Floridosides, from *Porphyra perforata*, chemical characterization of, 171
- Flow-calorimetric study of the binding of iodine to amylopectin, 257
- O*- α - and *O*- β -D-Galactopyranosyl-(1 \rightarrow 3)- and -(1 \rightarrow 4)- α -D-galactopyranose, ^{13}C -n.m.r. studies of peracetylated derivatives of, 144
- β -D-GlcpNAc-(1 \rightarrow 3)- β -D-Galp-(1 \rightarrow 3)- β -D-GlcpNAc-(1 \rightarrow 3)- β -D-GalpOME, synthesis of, 39
- β -D-GlcpNAc-(1 \rightarrow 6)- β -D-GalpOME, synthesis of, 39

- β -D-Glc pNAc-(1 \rightarrow 3)-[β -D-Glc pNAc-(1 \rightarrow 4)]- β -D-GalpOMe, synthesis of, 39
- Glucan, (1 \rightarrow 3)- β -D-, inversion of 2-hydroxyl groups of D-glucosyl units in, C1
- α -D-Glucofuranose and β -D-fructofuranose, photochemical oxidation of partially protected derivatives of, 65
- α -D-Glucosaccharinic acid, oxidation by nitric acid of, 156
- D-Glucose and some deuterated derivatives, conformational dependence of CH(CD)-stretchings in, as revealed by infrared and Raman spectroscopy, 1
- Glycofurano[2,1-d]imidazolidine-2-thiones, a structural revision of the products of acylation of, 49
- Glycosaminoglycans, sulfated, structural characterization of, by fast-atom-bombardment mass spectrometry, 305
- Glycosphingolipids, application of a simple methylation procedure for the analysis of, 281
- Hemicellulose A from the cork of *Quercus suber*, structural studies of the, 167
- Heparin, fragments of, prepared by chemical synthesis, structure of, 305
- D- and L-Hexoses, 4,6-dideoxy, synthesis of, 211
- Hydroxyperoxide, degradation of disaccharides and related compounds by, mechanisms of, 181
- Inversion of 2-hydroxyl groups of D-glucosyl units in (1 \rightarrow 3)- β -D-glucan, C1
- Iodine, binding to amylopectin fractions of, 257
- Klebsiella* serotype K15, studies of the primary structure of the capsular polysaccharide from, 91
- ¹⁸F-Labelled 2-deoxy-2-fluoro-D-galactopyranose, synthesis of, using the acetyl hypofluorite procedure, 314
- Linseed mucilage, structural features of an arabinoxylan and a rhamnogalacturonan derived from, 265
- Lysosomal enzymes, synthesis of end group of high-mannose chains of, 195
- O- α -D-Mannopyranosyl-(1 \rightarrow 3)- and -(1 \rightarrow 6)- α -D-mannopyranoside 6'-phosphates, synthesis of, 324
- 2-O- α -D-Mannopyranosyl- α -D-mannopyranoside, methyl, 6' and 6'-mono-, and 6,6'-diphosphate of, 318
- 2-O- α -D-Mannopyranosyl- α -D-talopyranoside, methyl, synthesis of, 31
- Mannosides, tri-, phosphorylated, synthesis of, 195
- Mechanisms for hydroperoxide degradation of disaccharides and related compounds, 181
- 8-Methoxycarbonyl O- α -D-mannopyranosyl-(1 \rightarrow 3)- and -(1 \rightarrow 6)- α -D-mannopyranoside 6'-phosphate, synthesis of, 324
- Methyl 2-O- α -D-mannopyranosyl- α -D-mannopyranoside 6- and 6'-mono-, and 6,6'-diphosphate of, 318
- Methyl 2,6-di-O-pivaloyl- α -D-glucopyranoside, synthesis and esterase-catalysed de-esterification of radiolabelled, 150
- Methylation procedure for the analysis of glycosphingolipids, application of a simple, 281
- Mucilaginous acidic polysaccharide from black gram (*Phaseolus mungo*): structure-function characteristics, 161
- Neoglycolipid micro-immunoassays applied to the oligosaccharides of human milk galactosyltransferase, 133
- Neoglycolipids, 3-bromo-2-bromomethylpropyl glycosides in the preparation of double-chain bis-sulfide, 225
- Nitric acid, oxidation of α -D-glucosaccharinic acid by, 156
- ¹³C-N.m.r. studies of peracetylated derivatives of O- α - and O- β -D-galactopyranosyl-(1 \rightarrow 3)- and -(1 \rightarrow 4)- α -D-galactopyranose, 144
- Nucleic acid chemistry (book review), C1
- Oligosaccharide fragments of the repeating unit of *Salmonella kentucky* O-specific polysaccharide, synthesis of, and conversion into the glycosyl phosphates, 97
- Oxidation of α -D-glucosaccharinic acid by nitric acid, 156
- Oxidation of partially protected derivatives of α -D-glucofuranose and β -D-fructofuranose, photochemical, 65
- Pectin, depolymerization with diazomethane of, 75
- Peracetylated derivatives of O- α - and O- β -D-galactopyranosyl-(1 \rightarrow 3)- and -(1 \rightarrow 4)- α -D-galactopyranose, ¹³C-N.m.r. studies of, 144
- 6'-O-Phosphorylated derivation of di-D-mannosyl glycosides, synthesis of, 324
- Phosphorylated trimannosides, synthesis of, 195
- Phosphorylation of the primary hydroxyl groups of methyl 2-O- α -D-mannopyranosyl- α -D-mannopyranoside, 318
- Photochemical oxidation of partially protected derivatives of α -D-glucofuranose and β -D-fructofuranose, 65
- Polysaccharide (S-198) elaborated by *Alcaligenes* ATCC 31853, structural studies of an extracellular, 127

- Polysaccharide from black gram (*Phaseolus mungo*), structure-function characteristics of a mucilaginous acidic, 161
- Polysaccharide from *Klebsiella* serotype K15, studies of the primary structure of the capsular, 91
- Proteoglycan containing L-arabino-D-galactan in radish seed, 113
- Quercus suber*, structural studies of the hemicellulose A from the cork of, 167
- Radish (*Raphanus sativus*) seeds, L-arabino-D-galactan from, 113
- Rhamnopyranose, β -L-, 1,3-anhydro-2,4-di-O-benzyl- and -2,4-di-O-(p-bromobenzyl)-, 235
- Rheological properties of ι -carrageenan, 247
- Salmonella kentucky* O-specific polysaccharide, synthesis of oligosaccharide fragments of the repeating unit of, and conversion of the oligosaccharides into the glycosyl phosphates, 97
- O-Specific side-chains of the *Escherichia coli* O-2 lipopolysaccharide, structural studies of the, 273
- Starch, crystallisation of malto-oligosaccharides as models of the crystalline forms of, and the minimum chain-length requirement for the formation of double helices, 291
- Starches and model compounds, factors affecting the crystalline type (A-C) of native, 301
- CH(CD)-Stretchings in D-glucose and some deuterated derivatives, conformational dependence of, as revealed by infrared and Raman spectroscopy, 1
- Structural characterization of sulfated glycosaminoglycans by fast-atom-bombardment mass-spectrometry: application to heparin fragments prepared by chemical synthesis, 305
- Structural features of an arabinoxylan and a rhamnogalacturonan derived from linseed mucilage, 265
- Structural revision of the products of acylation of glycofurano[2,1-d]imidazolidine-2-thiones, 49
- Structural studies of an extracellular polysaccharide (S-198) elaborated by *Alcaligenes* ATCC 31853, 127
- Structural studies of the hemicellulose A from the cork of *Quercus suber*, 167
- Structural studies of the O-specific side-chains of the *Escherichia coli* O-2 lipopolysaccharide, 273
- Structure-function characteristics of a mucilaginous acidic polysaccharide from black gram (*Phaseolus mungo*), 161
- Studies of the primary structure of the capsular polysaccharide from *Klebsiella* serotype K15, 91
- Synthesis and conformational analysis of substituted 2,6-dioxabicyclo[3.1.1]heptanes: 1,3-anhydro-2,4-di-O-benzyl- and -2,6-di-O-(p-bromobenzyl)- β -L-rhamnopyranose, 235
- Synthesis and esterase-catalysed de-esterification of radiolabelled methyl 2,6-di-O-pivaloyl- α -D-glucopyranoside, 150
- Synthesis of ^{18}F -labelled 2-deoxy-2-fluoro-D-galactopyranose using the acetyl hypofluorite procedure, 314
- Synthesis of oligosaccharide fragments of the repeating unit of *Salmonella kentucky* O-specific polysaccharide and conversion of the oligosaccharides into the glycosyl phosphates, 97
- α -D-Talopyranoside, 2-O- α -D-mannopyranosyl- and 2-O- α -D-talopyranosyl-, methyl, synthesis of, 31
- 2-O- α -D-Talopyranosyl- α -D-talopyranoside, methyl, synthesis of, 31
- Thiobarbiturate-negative endotoxin, detection of 3-deoxy-2-octulosonic acid in, c4